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## Course Purpose/Goals

This course will cover topics that will help students develop professional and innovative (client-side) Web applications, expanding on the content of CSCI 1210 to provide a more comprehensive overview of front-end web design and development. Topics will include current tools and techniques to increase the usefulness and effectiveness of Web sites, advanced Web style guidelines, integration of current Web standards, graphic design theory, writing for the Web, dynamic functionality, and real-world implementation considerations.

## Prerequisite

- ✓ CSCI 1210 (or CSCI 1710)

## Major Topics

- ▶ HTML 5 and CSS (2 & 3)
- ▶ Responsive design / Mobile-first design
- ▶ Browser-based developer tools
- ▶ Graphics/writing for the Web
- ▶ CSS frameworks
  - ✓ Bootstrap
- ▶ CSS Animation
- ▶ CSS preprocessors
  - ✓ SASS / LESS
    - Installation (Node.js & npm)
    - Command-line evocation
  - ✓ Modular and reusable code
- ▶ JavaScript
  - ✓ Intro to client-side web programming
  - ✓ Document Object Model
  - ✓ Console output
  - ✓ Syntax
  - ✓ Variables/operators/functions
  - ✓ Event handlers
  - ✓ Callbacks / Promises
  - ✓ ECMA5 vs. ECMA6
  - ✓ Troubleshooting
- ▶ jQuery
  - ✓ Syntax (vs. JavaScript)
  - ✓ jQ Objects vs. DOM Objects
  - ✓ Importing jQ library
  - ✓ `$(document).ready({ ... });`
- ▶ PHP
  - ✓ Introduction
  - ✓ Syntax
  - ✓ Variables/operators/functions
  - ✓ PHP Objects
  - ✓ Combining with jQuery (AJAX calls)
  - ✓ Interaction with databases
  - ✓ Security

## Learning Outcomes

The course is intended to instruct students on the fundamental principles used in designing and controlling the appearance, functionality, and layout of a web page using current technologies, including Bootstrap, CSS 3, SASS, JavaScript, jQuery, AJAX, and PHP.

## Major Assignments

This class's objectives will be met through the following types of assignments:

- Exams to assess the students' mastery of the material
- Weekly quizzes
- In-class labs
- A semester project
- Homework assignments

Percentage	Letter
93-100	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
60-66	D
0-59	F

## Grade Assignment and Scale

15% homework  
25% in-class labs  
20% project  
10% in-class quizzes  
15% Test 1  
15% Test 2

## Attendance Policy

Attendance is **required**. As described in Section 5.4 of the *East Tennessee State University Faculty Handbook*, June 1, 2001, students are expected to attend class regularly. **Every absence after the second will result in a 1 point reduction in their final grade.** Labs may be made up, at the instructor's discretion. Homework will be accepted late, with -10 points per business day, up to a 50 point reduction (5 days). From that point, it will not be accepted. The midterm (Test 1) and final (Test 2) cannot be made up unless the instructor is notified prior to the test or the student can provide documentation of an emergency situation. Lab assignments should be completed by the end of their respective class meeting times.

## Remote Learning

Current circumstances mandate that this class be taught off-campus via Zoom. However, it is intended that the class be conducted synchronously to the greatest degree possible. Roll call may or may not be taken and the above attendance policy will be enforced at the instructor's discretion. It is the student's responsibility to keep up with the class and with assignment due dates. I will make an effort each week to record the week's lecture in real-time for distribution thereafter. However, to receive the full benefit of this class, it would be best for you to attend lecture as it is presented. If you have to miss class, it is your responsibility to contact a classmate and find out what was covered. Do not send me an email saying you had to miss and asking me to tell you what I covered. The schedule at the end of this document provides a tentative outline of the course topics for this semester.

## Contacting Me

I'm available pretty much around the clock, via email ([ramseyjw@etsu.edu](mailto:ramseyjw@etsu.edu)) or Discord (jram#4739). When emailing me, please be sure to include your course number (CSCI 1720), either in the subject or body of the message. On Discord, if your ID doesn't give a hint as to your identity, let me know in your message who you are, so I know who I'm talking to. If it becomes necessary, I'm happy to set up a 1:1 Zoom meeting to help. I expect to be available for 'regular office hours' before and after each class meeting.

## Website

Much of the course content will be presented via a website: <https://csci1720.net>. It is here that your lab instructions will be presented, along with examples, assignments, and other class resources. D2L will be used to host quizzes/exams and to include links to lecture/lab videos. Each of you will have an account on the server that you will use to complete assignments and to upload/submit your work. Additionally, you should create a Github account and create a (private) repository for your classwork. Then, invite me (jwramsey) to be a collaborator with your repo. We will discuss this further in class.

## Required Lab Materials

Some storage medium to use in the lab (~~Don't use the Z:\ drive!~~) (i.e., thumb drive or external hard drive). I'm not kidding...if I see you using the Z:\ drive, I will count off of your assignment scores. You will have assignments to work on outside of lab and will need to be able to take your files with you.

Obviously, since you will be doing the course assignments on your personal computers, how you choose to store the associated files is up to you. I recommend against using cloud storage (e.g., Google Docs), as that makes it more difficult to do some of the exercises we have scheduled. We will use Github as a repository for your work, which I will explain in more detail in class. Whatever medium you choose, you should create a folder for your work named *your\_etsu\_id.csci1720.net*, e.g., *ramseyjw.csci1720.net*. This will mirror the file structure of your accounts on the class server (see above). Inside that folder, you can create subfolders named 'labs' and 'homework,' or 'assignments.' Other subfolders can be created as needed, but you will need those two at least.

## Expectations

Students and instructors should have expectations of one another, many of which are mutual. Students should expect the instructor to be in class on time, to be prepared, to be attentive to students, to be available to answer questions and provide help related to the course, and to make a genuine effort to help students achieve course objectives. On those rare occasions when the instructor must miss class, students should expect suitable arrangements for the class to continue in the instructor's absence. Students should expect the instructor to devote considerable time and effort to the course.

Similarly, the instructor expects students to be in class on time, be prepared, be attentive and participate in class, complete assignments on time, make a genuine effort to meet the course objectives, and devote considerable time and effort to the course. Be prepared to spend a minimum of 2-3 hours outside of class for each hour in class.

You are encouraged to ask appropriate questions and to participate in class discussions and activities. You may learn as much from one another as from the instructor. If you are confused about some point, chances are that others are also confused and will appreciate that you asked for clarification.

## Use of Personal Computing Devices During Lecture/Lab

~~Well, this is a little out-of-context for our class modality this Spring: Students are permitted to make use of their personal computing devices (i.e., laptops and tablets) during lecture periods, provided that such use is limited to course-related activities only.~~

~~During lab meetings, students are welcome to use their personal devices to complete lab assignments if they prefer such use to the university provided PCs. However, the same prohibitions associated with lecture periods will apply.~~

**Cell Phones:** Students are responsible for ensuring that their cell phones are set to "silent" or "vibrate" for the duration of each class meeting. Even on Zoom, if your audio is enabled and your phone rings, it causes a distraction for others. Please be mindful of this. ~~Texting or other use of cell phones during class is prohibited.~~ However, if you receive call that is or may be important, you should excuse/mute yourself before answering the call so as to avoid disrupting the class. ~~Anyone caught texting or browsing on his or her phone will be given a warning. A second time: will be asked to leave the classroom.~~

## Assessment Policies

- During quizzes and tests, cell phones shall be set to silent and either placed face down on the desk or stowed in a book bag or purse.
- Unless otherwise instructed, quizzes/exams are to be completed without reference to outside sources (Google, W3Schools, old lab code, etc.).
- While completing tests, no personal music (i.e., earbuds) devices will be allowed.
- Tests this semester will be administered as 'Take Home' exams. You will be given a weekend (Friday through Sunday) to complete each.

## Academic Integrity Policy

You are encouraged to discuss material addressed in the course, including assignments, with members of the class and others. Helping one another find and understand problems in assignments is permitted as long as an honest individual attempt has been made to solve the problem. Everyone, however, must do his/her own work. Completing an assignment "by committee"

and submitting it as an individual work is academic misconduct unless the assignment has been designated as a team assignment. Your name on submitted work is an affirmation that the work is yours.

You may wish to look for (open-source) material on the web on your own for some assignments. This is acceptable, as long as you 1) add comments to the code that indicate your understanding of what it does and 2) place a citation, either in comment form embedded in the code or displayed on the page, attributing it to its original author(s). Failure to follow these directives will result in a charge of academic misconduct (described below).

Please refer to the ETSU Academic Misconduct Policy for more information:  
<http://www.etsu.edu/cas/casinarc/currentstudents/misconduct.aspx>

### *Policies for this course*

**All work MUST be your OWN work!** This applies to homework assignments, quizzes, tests and in-class lab exercises.

**In cases of academic misconduct, the following rules will apply and shall be enforced:**

1. The 1st offense will result in a grade of 0 assigned for the assignment/exercise/quiz/test for all involved and a formal Academic Misconduct Charge will be filed with the University according to the University's Academic Misconduct Policy.
2. A 2nd offense will result in an 'F' for the course and a formal Academic Misconduct Charge will be filed with the University according to the University's Academic Misconduct Policy. A second Academic Misconduct Charge throughout the entire time that the student is enrolled at ETSU can result in expulsion from the University.

## Tentative Schedule

Week	Topic	Lab	Lab Topic	Lab Focus	Assignments	Assignment Topic	Assignment Focus
1	Intro	Lab 0	Review	Reorienting on HTML & CSS	HW-0.1	Vocabulary	Vocabulary
2	Dev tools	Lab 1	Lab	TBD	HW-0.2	Vocabulary	Vocabulary
3	Bootstrap	Lab 2	BS-1	Structuring BS Documents			
4	Responsive/mobile-first	Lab 3	BS-2	Navbars	HW-1	Carousel	Building a carousel
5	Bootstrap	Lab 4	BS-4	Landing page			
6	CSS animation	Lab 5	CSS Animation	TBD	TBD	CSS Animation	Transforms
7	SASS	Lab 6	SASS-1	Intro to SASS			
8	SASS	Lab 7	SASS-2	Variables/nesting			
9	JS	Lab 8	JS-1	Console			
10	JS	Lab 9	JS-2	Lightbox	HW-3	Integrated music w/ custom controls	Integration of JS w/ web pages
11	jQuery	Lab 10	jQuery-1	Accordion	HW-4	Integrated music w/ custom controls	Integration of JS w/ web pages
12	jQuery	Lab 11	jQuery-2	Form validation	HW-5	Integrated music w/ custom controls	Integration of JS w/ web pages
13	PHP	Lab 12	PHP (Project)	Registration page	jQuery-3	Shopping List	Dynamic update of lists/printing document
14	PHP		PHP (Project)	Registration page	Finish PHP page	Sanitizing input / performing calculations / output	
15	Dead week		Review				
16	Final Exam						